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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/754,147	01/05/2001	Bas Ording	P2428USX-722	3465

21839 7590 04/22/2003

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EXAMINER

PADMANABHAN, MANO

ART UNIT	PAPER NUMBER
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2671

11

DATE MAILED: 04/22/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/754,147

Applicant(s)

ORDING, BAS

Examiner

Mano Padmanabhan

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 20 February 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-5,7,8,10-17 and 19-29 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-5,7,8,10-17 and 19-29 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 10.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Status of claims*

Claims 1-5, 7-8, 10-17, 19-29 are in the Application.

Claims 6, 9, 18 have been cancelled by applicants amendment.

Claims 1-5, 7-8, 10-17, 19-29 are rejected.

### *Response to Amendments*

Applicants arguments filed on 2/20/2003 (paper #9) in response to the office action mailed on 11/20/2002 have been fully considered, but they are not persuasive. Therefore, the rejections made in the previous office action are maintained, and restated below.

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-5, 7-8, 10, 20, and 21 are rejected under 35 U.S.C. 102(b) as being anticipated by Chang et al (Animation : From Cartoons to the User Interface : 1993 : ACM 0-89791-628-X/93/0011).

As per claim 1, Chang teaches a method for moving an object in a graphical user interface, comprising the steps of:

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a) determining a path of movement for the object along at least one axis, and a period of time for the movement along said path (Fig.8: starting and ending positions; fig.9);

b) establishing a non-constant velocity function along said axis for said period of time (page 51: slow-in and slow-out movement with faster movement in the middle);

c) calculating an instantaneous position for the object along said path in accordance with said function and the relationship of a current time value to said period of time (fig.8 and fig.9);

d) displaying said object at said calculated position (fig.8 and fig.9); and

e) iteratively repeating steps (c) and (d) during said period of time (fig.8 and fig.9).

As per claim 2, Chang teaches a non-linear function for velocity (fig.8; fig.9; page 51: slow-in slow-out).

As per claim 3, Chang implicitly teaches the function being a sinusoidal function, since Chang teaches the velocity of the object increases gradually to a maximum value in the slow-in phase, and then decreases gradually, similar to a sine function.

As per claim 4, Chang teaches the steps of: determining the amount of time that has elapsed since the beginning of said period of time, and determining the instantaneous position of the object along said path (fig. 8 & fig. 9; page 51). As per calculating the ratio of said elapsed amount of time to the total duration of said period of time, and applying said ratio to said function to determine a translation factor; and using the translation factor to determine the

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instantaneous position of the object such is known as taught by Chang, since Chang displays translation from initial position to current position based on time, distance and velocity.

As per claim 5, Chang teaches a method for moving an object in a graphical user interface, comprising the steps of: identifying a starting location for the object; selecting a final location for the object (fig.8: beginning and final pose; fig.9); displaying said object at sequential positions along a path from said starting location to said final location at increments of time (fig.8; fig.9), such that the distance between successive positions varies so that the object appears to be moving at a changing velocity (fig.8, fig.9).

Claims 7 are similar to claims 3, and hence are rejected with the same rationale.

Claims 8,10 are similar to claims 5,7, and hence are rejected with the same rationale.

Claim 20 is a user interface claim for a combination of claims 1 and 2, and hence is rejected with the same rationale as claims 1 and 2.

Claim 21 is a user interface claim for claim 3, and hence is rejected with the same rationale.

### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C.103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 14-16, 17, 19, and 25-26 are rejected under 35 U.S.C.103(a) as being unpatentable over Chang et al (Animation : From Cartoons to the User Interface : 1993 : ACM 0-89791-628-X/93/0011).

Claims 14-16, 17, 19, and 25-26 are program medium and system claims for the method claims of 1-3, and 5, 7 respectively, and hence are rejected with the same rationale, as it would have been obvious to have a storage medium to store the program of the method, and a system to execute such programs.

5. Claims 11, 22, and 27 are rejected under 35 U.S.C.103(a) as being unpatentable over Chang et al (Animation : From Cartoons to the User Interface : 1993 : ACM 0-89791-628-X/93/0011), as applied to claims 8, 20, and 25 respectively, and further in view of IBM TDB article ("Window Closing Animations": IBM Technical Disclosure Bulletin, US, IBM Corp, NY; 1 Nov. 1995; ISSN 0018-8689).

As per claim 11, IBM TDB article teaches user action of minimizing a window, and animations for minimizing a window. Hence, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the animation for minimizing the window in the invention of Chang, in order to provide effective feedback on user action.

Claims 22 and 27 are similar to claim 11, and hence are rejected with the same rationale.

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6. Claims 12, 13, 23, 24, 28, and 29 are rejected under 35 U.S.C.103(a) as being unpatentable over Chang et al (Animation : From Cartoons to the User Interface : 1993 : ACM 0-89791-628-X/93/0011), as applied to claims 8, 20, and 25 respectively, and further in view of Ellison-Taylor (US 5,796,402).

As per claims 12 and 13, Ellison-Taylor teaches a tiling program that aligns the windows based on the relative position and size of the windows when the request is made (Col.3: lines 27-48), thus teaching implicitly the moving of objects in a series toward the space occupied by the removed object when an object is removed, and away from the inserted object when an object is inserted. It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the tiling of Ellison-Taylor in the invention of Chang, so that the objects may be displayed in their final positions without overlap, so that all the objects in the display area are visible to the user concurrently.

Claims 23-24, and 28-29 are similar to claims 12-13, and hence are rejected with the same rationale.

### ***Response to Arguments***

Applicant's arguments filed on 2/20/2003 have been fully considered, but they are not persuasive.

As per Applicants argument regarding claim 1, that there is no disclosure in Chang about how the varying distance between the respective objective positions is determined, and that Chang does not disclose the concept of using periods of time or current values of time as factors,

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and that the varying positions of Chang may be achieved by distance alone, and that the velocity function and time calculation do not necessarily flow from Chang, it is noted that such is illustrated in Fig.1 wherein the position is based on time and velocity.

As per applicants argument that Chang does not disclose that the movement of an object is independent of the speed of the processor, it is noted that this has not been claimed.

As per applicants argument regarding claim 5, that Chang fails to teach the step of displaying the object at sequential positions along a path from a starting location to a final location at increments of time, such that the distance between successive positions varies in accordance with a non-linear function, it is noted that fig.8 and 9 display sequential positions of object along a path at increments of time, based on a non-linear function of velocity, as is further illustrated by fig.1, and as explained above.

As per applicants argument regarding claim 20, that Chang fails to disclose a user-interface that includes selecting a period of time during which movement is to occur, and moving the object at a non-linear rate of movement during said period of time, it is noted that Chang discloses position as a function of velocity and time (fig.1), and also illustrates the effect of variations of velocity on a position for a specified time, while also teaching a non-linear velocity function for the duration of the movement as illustrated in fig.8, wherein the object moved from a starting location to a final location.

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).



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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mano Padmanabhan whose telephone number is 703 306-2903. The examiner can normally be reached on Mon-Thurs: 7-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Zimmerman, can be reached at 703 305-9798.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D.C. 20231

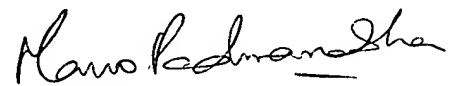
**or faxed to:**

**(703) 872-9314 (for Technology Center 2600 only)**

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Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,  
Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding  
should be directed to the Technology Center 2600 Customer Service Office whose telephone  
number is (703) 306-0377.



Mano Padmanabhan

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April 18, 2003